REPORT RESUMES

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TECHNICAL EDUCATION--LESS-THAN-BACCALAUREATE LEVEL PROGRAMS

IN HIGHER EDUCATION.

BY- MARTIN, ROBERT R.

EASTERN KENTUCKY STATE COLLEGE, RICHMOND

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DESCRIPTORS- *HIGHER EDUCATION, *STATE UNIVERSITIES, *STATE COLLEGES, *TECHNICAL EDUCATION, *PROGRAM LENGTH,

WHEN A QUESTIONNAIRE WAS SENT TO 367 COLLEGES AND UNIVERSITIES TO DETERMINE THE EXTENT OF CURRENT INVOLVEMENT AND PROJECTIONS FOR FUTURE INVOLVEMENT IN LESS THAN BACCALAUREATE DEGREE TECHNICAL EDUCATION PROGRAMS, 282 INSTITUTIONS (76.8 PERCENT) RESPONDED. APPROXIMATELY ONE-THIRD OF THE RESPONDENTS OFFERED NO TECHNICAL PROGRAMS, AND TWO-FIFTHS OFFERED LESS THAN BACCALAUREATE TECHNICAL PROGRAMS. MORE THAN HALF OF THE COLLEGES WITH OVER 10,000 STUDENTS OFFERED SUCH PROGRAMS. OF THE 619 PROGRAMS IDENTIFIED, 575 WERE OF TWO YEARS OR LESS. APPROXIMATELY HALF OF THE RESPONDENTS PLANNED TO ADD OR EXPAND PROGRAMS. IN THOSE COLLEGES NOT PLANNING TO ADD OR EXPAND PROGRAMS, LACK OF DEMAND AND ALLOCATION OF THE TECHNICAL EDUCATION FUNCTION TO OTHER EDUCATIONAL INSTITUTIONS WERE GIVEN AS THE REASONS. (WO)

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

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TECHNICAL EDUCATION: LESS-THAN-BACCALAUREATE LEVEL PROGRAMS IN HIGHER EDUCATION

Prepared by

Eastern Kentucky University Richmond, Kentucky 40475

In Cooperation with the

Association of State Colleges and Universities 1785 Massachusetts Avenue, N. W. Washington, D. C. 20036

and the

National Association of State Universities and Land Grant Colleges 1785 Massachusetts Avenue, N. W. Washington, D. C. 20036

UNIVERSITY OF CALIF.
LOS ANGELES

MAR 22 1968

CLEARINGHOUSE FOR JUNIOR COLLEGE INFORMATION



FOREWORD

The results of this study are provided as an indication of the current and projected future involvement of institutions of higher education in technical education programs of less-than-baccalaureate level.

Credit is due Dr. Allan W. Ostar, Executive Director, Association of State Colleges and Universities and Dr. John D. Rowlett, Dean, College of Applied Arts and Technology, Eastern Kentucky University, for their initial interest and support throughout the project. Credit is also due Dr. William E. Sexton, Chairman, Industrial Technology Department, Lastern Kentucky University, who conducted the investigation and prepared the final report.

Finally, I wish to acknowledge my special indebtedness to the individual representatives of the many colleges and universities who provided the data for this report. Without their interest and assistance, this project would not have been possible.

ROBERT R. MARTIN, President Eastern Kentucky University



INTRODUCTION

Eastern Kentucky University recently cooperated with the Association of State Colleges and Universities and the National Association of State Universities and Land Grant Colleges in a research project designed to ascertain the status of less-than-baccalauresto level technical education programs in institutions of higher education.

It was believed that such a study would give adequate recognition nationally to the role played by state and land grant colleges and universities in meeting educational needs at less-than-baccalaureste degree levels. Further, it was contended that information thus gained might be used by the two associations during the course of their deliberations with congressional committees and other federal agencies.

Purposes of the Study

The purposes of the study were to ascertain (1) the extent of current involvement nationally in less-than-baccalaureate degree level technical education programs and (2) the projected extent of involvement in these programs by 1970. Answers to the following questions were sought:

- 1. To what extent are member institutions of the ASCU and the NASULGC involved in technical education programs of less-than-baccalaureate level on the main campus and in off-campus centers?
- 2. What is the current pattern regarding the planned duration of technical education curricula?



- 3. What is the current student enrollment in technical education programs of less-than-baccalaureate level?
- 4. To what extent will technical education programs of less-than-baccalaureate level increase or decrease, by 1970, in institutions currently offering such programs?
- 5. To what extent will technical education programs of less-than-baccalaureate level be added, by 1970, to the curriculum of institutions not offering such programs at present?

Definition of Terms

For the purposes of this study, technical education programs were defined as those occupational curricula that combine general education with technical information and practical skill development experiences necessary for individuals who wish to enter into and subsequently succeed in occupations that require an understanding of the laws of science and technology and their application in our society.

Limitations of the Study

This study was limited to the 367 colleges and universities in the United States and its territorial possessions classified as members or eligible nonmembers of the Association of State Colleges and Universities and the National Association of State Universities and Land Grant Colleges.

Secondly, the study was necessarily limited to the extent to which respondents correctly interpreted and supplied valid responses to items appearing on the information forms.

Finally, the validity of data evolving from the study was limited to the extent that the colleges and universities participating in the study accurately represented the institutions offering technical education programs of less-than-baccalaureate level.



SOURCES OF DATA AND METHOD OF STUDY

Participating Institutions

Colleges and universities invited to participate in the study were limited to those reported as members or eligible nonmembers of the Association of State Colleges and Universities and the National Association of State Universities and Land Grant Colleges. An introductory letter¹, together with a copy of "Information Form for Technical Education Programs of Less Than Baccalaureate Level Offered On the Main Campus" and "Information Form for Technical Education Programs of Less Than Baccalaureate Level Offered Off the Main Campus," and an addressed return envelope was mailed to the administrative head of the 367 colleges and universities on February 1, 1967.

As indicated in Table I, completed forms were returned by representatives of 282 institutions. This group represented 76.8 per cent of the institutions contacted.



¹See Appendix A, p. 23, for copy of introductory letter.

²See Appendix B, p. 24, for copy of information form.

³See Appendix C, p. 25, for copy of information form.

TABLE I
DISTRIBUTION OF ELIGIBLE AND PARTICIPATING INSTITUTIONS

State	Number o	f Institutions	
or	Eligible and		Per Cent of
Territory	Contacted	Participated	Response
Alabama	10	8	80.0
Alaska	1	ì	100.0
Arizona	3	3	100.0
Arkansas	8	7	87.5
California	21	15	71.4
Colorado	9	6	66.7
Connecticut	5	3	60.0
Delaware	2	2	100.0
District of Columbia	1	l	100.0
Florida	5	4	80.0
Georgia	13	10	76.9
Guam	1	0.	00.0
Hawaii	ı	0	00.0
Idaho	2	1	50.0
Illinois	8	5	62.5
Indiana	5	5	100.0
Iowa	3	2 '	66.7
Kansas	7	6	85.7
Kentucky	6	5	83.3
Louisiana	9	8	88.9
Maine	7	5	71.4
Maryland	8	3	37.5 .
Massachusetts	15	11	73.3
Michigan	10	5	50.0
Minnesota	6	5	83.3
Mississippi	8	7	87.5
Missouri	8	5	62.5
Montana	6	5	83.3
Nebraska	6 5 1	2	40.0
Nevada	1	1	100.0
New Hampshire	3	3	100.0
New Jersey	8	6	75.0
New Mexico	6	4	66.7
New York	14	11	78.6
North Carolina	13	9	69.2

TABLE I (continued)
DISTRIBUTION OF ELIGIBLE AND PARTICIPATING INSTITUTIONS

State	Number	of Institutions	
or	Eligible and	•	Per Cent of
Territory	Contacted	Participated	Response
North Dakota	7	6	85.7
Ohio	8	7	87.5
Oklahoma	9	7	77.8
Oregon	6	6	100.0
Pennsylvania	15	14	93.3
Puerto Rico	1	0	00.0
Rhode Island	2	2	100.0
South Carolina	4	4 '	100.0
South Dakota	7	5	71.4
Cennessee	7	7	100.0
Texas	20	15	75.0
Utah	Łţ	3	75.0
Vermont	4	4	100.0
Virginia	9	5	55.6
Washington	5	5	100.0
West Virginia	10	9	90.0
Wisconsin	10	8	80.0
Wyoming	1	1	100.0
Total	367	282	76.8



Treatment of Data

Since it was initially assumed that completed forms would be received from institutions ranging in size from small colleges to large universities, it was believed that tabulation of data on some basis of institutional size would be both desirable and feasible. Since, further, total student enrollment was an reported item on the information forms, this figure was arbitrarily employed as an index of institutional size. Consequently, data were classified in four enrollment categories, (1) less than 5,000, (2) 5,000 - 10,000, (3) 10,000 - 15,000, and (4) over 15,000. The subsequent distribution of participating institutions by enrollment and institutional classification is indicated in Table II.

Completed information forms and explanatory letters received from the 282 participating institutions constituted the only sources of data for the study. All data collected were classified, tabulated and treated in a manner designed to facilitate presentation in tabular form.

TABLE II

ENROLLMENT SIZE AND CLASSIFICATION OF PARTICIPATING INSTITUTIONS

Institutional Enrollment	Institutional Classi Member or Eligible Nonmember of ASCU	fication Land Grant	Total
Less than 5,000	137	12	149
5,000 - 10,000	65	12	77
10,000 - 15,000	16	9	25
Over 15,000	15	16	31
Total	233	49	282



STATUS OF LESS-THAN-BACCALAUREATE LEVEL TECHNICAL EDUCATION IN HIGHER EDUCATION

of Current Technical Education Programs

Of the participating institutions, approximately one-third (34.4 per cent), did not offer technical programs at any level. Seventy-one, or 38.4 per cent, of the one hundred eighty-five institutions that did offer technical education programs provided these at the baccalaureate level only.

TABLE III

LEVEL OF TECHNICAL EDUCATION PROGRAMS OFFERED ON AND OFF THE MAIN CAMPUS
IN PARTICIPATING INSTITUTIONS

		of Insti				
Program Level	Less Than 5,000	5,000 To 10,000	10,000 To 15,000	0ver 15,000	Total	Per Cent Of Total (282)
Baccalaureate level					71	25.2
only on campus	32	23	8	8	. =	
Less-than-						
baccalaureate					A	15.0
level only			_		43	15,2
on campus	16	12	4	3		
offnpus	1		2	3		
on and off campus	1			ı		
Both baccalaureate and less-than-						27.0
baccalaureate level					71	25.2
on campus only both on and off	23	27	6	6		
campus	3	1	1	4		
No technical	5 0	14	4	6	97	34.4
education offered	73	J.4	7			
Total	149	77	25	31	282	100.0

Consequently, less-than-baccalaureate level technical education programs were available in approximately two-fifth (40.4 per cent) of the participating institutions.



Table III indicates that whereas less-than-baccalaureate level technical education programs were available in only 32.2 per cent of the institutions with enrollments up to 10,000, such programs were available in 53.6 per cent of the institutions with enrollments exceeding 10,000. These data further reveal that although technical education is not available in less than one-fifth (17.8 per cent) of the institutions with enrollments exceeding 10,000, such educational opportunity is not available in almost two-fifths (38.5 per cent) of the institutions with less than 10,000 students.

Program Duration of Current Offerings

Data presented in Table IV clearly indicate that a large majority, 81.6 per cent, of the available technical programs of less-than-baccalaureate level was of two years' duration. Further, 108, or 62.8 per cent, of the institutions offering technical education programs at this level scheduled from one to thirty-two programs of this length in their curriculum.

Program duration was concentrated between lengths of one and two years with only 6.9 per cent of all programs greater than two years in length and 2.1 per cent less than 1 year in duration.



TABLE IV

DURATION OF PROGRAMS PRESENTLY OFFERED IN PARTICIPATING INSTITUTIONS

أحاله المرابط المرابط والمرابط			Programs With Enr					فينسد
Program Duration	Less Than	5,000 to	10,000 to	0ver 15,000		Number of Institutions	Range	Mean
More than 3, less than 4 years		4	2		6	3	1-3	2.0
3 years	16	16	1	3	36	19	1-5	1.9
2 1/2 years		1			1	1	-1	1.0
2 years	210	158	58	79	505	108	1-32	4.7
1 1/2 years				6	6	2	2-4	3.0
1 1/3 years 1 year 2/3 year	7 16	16	4	9 1	7 45 1	1 28 1	-7 1-9 -1	7.0 1.6 1.0
Less than 1/2 year	5	2	1	3	11	8	1-3	1.4
Unspecified duration		ı			1	1	-1	1.0
Total	254	198	66	101	619	172	1-32	3.6

Student Enrollment in Present Programs

Table V indicates that a large majority of the students enrolled in less-than-baccalaureate level technical education programs, 81.4 per cent, was registered in curricula of two years' duration. Of the 31,551 persons enrolled in programs leading to less than a baccalaureate degree, only 2.5 per cent were following curricula which required less than one year to complete.



Since no enrollment data were provided for 45 of the 619 programs reported, the total enrollment figures shown in Table V represent those recorded in 574 programs, or a mean enrollment of approximately 55 students per program. Using this figure as an average enrollment figure for the 45 unreported programs, it may be hypothesized that a total of approximately 34,326 students were enrolled in less-than-baccalaureate level programs in participating institutions.

TABLE V
STUDENT ENROLLMENT IN PRESENT PROGRAMS

	Total		utions W	m Enroll ith Enro		No Enrollment
Duration Of Present Programs	Student Program Enrollment	Less Than 5,000	To	10,000 To 15,000	0ver 15,000	Data Given Total Number Of Programs
More than 3, less than 4 years	1,518		1,200	318		
3 years	1,582	304	1,257	20	1	2
2 1/2 years	45		45			
2 years	25,668	7,828	5,361	2,959	9,520	29
1 1/2 years	154				154	•
1 1/3 years		,				7
l year	1,697	536	746	72	343	3
2/3 year	190				190	
Less than 1/2 year	697	322	65	25	285	3
Unspecified duration	on					1
Total	31,551	8,990	8,674	3,394	10,493	45



Addition or Expansion of Less-Than-Baccalaureate Level Technical Programs in Institutions Currently Offering Such Programs

Tables VI, VII and VIII reveal data regarding the plans of participating institutions currently offering technical education programs of less-than-baccalaureate level to extend these programs by 1970. As indicated, approximately one-half (49.1 per cent) plan additions to or expansion of existing programs. Of those that do not have plans in this direction, over one-half indicated that (1) delegation of the technical education function to other state institutions, (2) insufficient demand for additional programs and (3) a sufficient number of programs presently offered were reasons for this decision.

ADDITION OR EXPANSION OF LESS-THAN-BACCALAUREATE LEVEL
TECHNICAL EDUCATION PROGRAMS IN INSTITUTIONS PRESENTLY OFFERING SUCH
PROGRAMS

Institutional Enrollment	Plan To Add Or Expand Programs	Do Not Plan To Add Or Expand Programs	Unknown Or No Response	Total
Less than 5,000	27	14	3 '	44
5,000 - 10,000	17	15	8	40
10,000 - 15,000	5	7	1	13
Over 15,000	7	5	5	17
Total	56	41	17	114

Of the 134 programs to be added or expanded by 1970, 103, or 76.9 per cent, are planned to be of two years' duration and 124, or 92.7 per cent, are to be of one year or more in length. A majority of the planned programs.



TABLE VII

PROGRAM DURATION AND YEAR TECHNICAL EDUCATION PROGRAMS OF

	PROG LEVE	IL A	KE E	TO	PROGRAM DURATION AND YEAR TECHNICAL LEVEL ARE TO BE ADDED OR EXPANDED IN	CEAR OR E	TEC	NDED	-	DUCAT	TOTI	PRO ONS	GRAMS (PRESEN	EDUCATION PROGRAMS OF LESS-THAN-BACCALAUREATE INSTITUTIONS PRESENTLY OFFERING SUCH PROGRAMS	THA	N-B/	NCCA SUCH	LAURI PRO	SATE	
Planned Program Duration	Year Prog Less than 5 67 68 69 Year 68 69 70 Unk.	Yea 88 6 97	tha 10 V	Year Programs Less than 5,000 68 69 Year 69 70 Unk. Tot	Are al	To Be Add 5,000 - 67 68 69 68 69 70	9 7(dded Or - 10,000 9 Year 0 Unk.		. Expanded 10 1 67 Total 68	ded 10 67 68	In • 00 68 69	d In Institutions 10,000 - 15,000 7 68 69 Year 8 69 70 Unk, Tota	ns ta]	ith 67 68	Enz 68 69	With Enrollment Over 15,000 67 68 69 Year 1 68 69 70 Unk,	Enrollment Over 15,000 68 69 Year 69 70 Unk,	J Total	Program Tot⊴l
3 years	•	7	2	2	5		1			н						2			S.	11
2 1/2 years	က	-			±		•													#
2 years	10 19		ro.	9	0+1	11 10		8 9		35	S	#	8	7	က	œ	#	8	17	103
1 1/2 years														1	7	7			8	8
l year	8	-	_		±															ŧ
Unknown	н	2			7			က	•	ო		1								10
Totals: 67-68 68-69 69-70 Yr. Unk. Program Total	16 [.] 24	•	, 8 T	12	09	11	1	6 11	_	39	ហ	#	. 8	#	=	컦	‡	8	5 4	36 53 20 25 134



66.4 per cent, are to be implemented by the end of the 1968-1959 school year.

It is significant to note that institutions with a current enrollment of less than 10,000 comprised 78.6 per cent of the group planning additional programs; further, this group planned 73.9 per cent of the new or expanded programs anticipated by 1970.

TABLE VIII

REASONS WHY LESS-THAN-BACCALAUREATE LEVEL TECHNICAL EDUCATION PROGRAMS ARE
NOT TO BE ADDED OR EXPANDED IN INSTITUTIONS PRESENTLY OFFERING SUCH PROGRAMS

	Insti	tutional	Response B Enrollmen		
Reasons Given For No Addition Or Expansion Of Programs	Less Than 5,000	5,000 To 10,000	10,000 To 15,000	Over 15,000	Total
Technical education is a function delegated to other institutions in the state	6	6	2	6	20
Insufficient demand for additional programs	7	3	1		11
Sufficient number of programs are presently offered	3	5	2		10
Insufficient funds are available	5	3			8
Lack of student interest in present programs	1	3	1		5
Emphasis is to be placed on baccalaureate programs	1	3	1		5
Inadequate facilities are available	1	4			4
Technical education is incon- sistent with institutional purposes	2	1	1		4
Difficult to locate qualified staff	1	1			2
Program planning controlled by coordinating council	,	1.			2



TABLE VIII (continued)

REASONS WHY LESS-THAN-BACCALAUREATE LEVEL TECHNICAL EDUCATION PROGRAMS ARE NOT TO BE ADDED OR EXPANDED IN INSTITUTIONS PRESENTLY OFFERING SUCH PROGRAMS

			Response E Enrollmer		
Reasons Given For No Addition Or Expansion Of Programs	Less Than 5,000	5,000 To 10,000	10,000 To 15,000	Over 15,000	Total
Insufficient demand for graduates of such programs	1		ï		1
Demand is for baccalaureate level graduates	1				1
Problem is under advisement	1				1
Four-year programs overshadow two-year		ı			1
Present program being phased out			1		1
Total	31	30	9	6	76

Addition of Less-Than-Baccalaureate Level Technical Programs in Institutions Not Presently Offering Such Programs

Tables IX, X and XI provide data concerning the plans of participating institutions not offering technical education programs to add these programs by 1970. Only 13, or 7.7 per cent, of the institutions in this group planned to add technical education to their curriculum. Of the 40 programs anticipated, 25, or 62.5 per cent, are to be of two years' duration and 35, or 87.5 per cent, will be one year or greater in length.

Participating institutions indicated, with greatest frequency, that the major reasons for not adding technical programs of less-than-baccalaureate level were (1) its delegation to other state institutions, (2) its inconsistency with institutional purposes, (3) the lack of adequate facilities, and (4) the lack of sufficient funds.



TABLE IX

PLANS FOR ADDITION OF LESS-THAN-BACCALAUREATE LEVEL TECHNICAL EDUCATION PROGRAMS IN INSTITUTIONS NOT OFFERING SUCH PROGRAMS AT PRESENT

Institutional Enrollment	Plan To Add Programs	Do Not Plan To Add Frograms	Unknown Or No Response	Total
Less than 5,000	10	67	28	105
5,000 - 10,000	3	26	8	37
10,000 - 15,000		9	3	12
Over 15,000		12	2	14
Total	13	114	41	168

PLANNED DURATION AND YEAR TECHNICAL EDUCATION PROGRAMS OF LESS-THAN-BACCALAUREATE LEVEL ARE TO BE ADDED IN INSTITUTIONS NOT CURRENTLY OFFERING SUCH PROGRAMS

	Yea	ar l	Pro		Are To B With En			itu-	
	L	ess	th	an $5,0$			0 - 10,	000	
Planned Program Duration				Year Unk.	Total		69 Year 70 Unk.		Total
More than 3, less than 4 years		3			3				3
2 years	9	9	1	5	24		1	1	25
l year	2	2	1	2	7				7
Unknown						4	1	5	5
Totals: 67-68	11						المستسية الإستاد فيها		11
68-69		14				4			18
69-70			2				2		4 7
Yr. Unk. Programs				7	34			6	40



TABLE XI

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REASONS WHY LESS-THAN-BACCALAUREATE LEVEL TECHNICAL EDUCATION PROGRAMS ARE NOT TO BE ADDED IN INSTITUTIONS NOT CURRENTLY OFFERING SUCH PROGRAMS

	Freq Inst	uency of itutiona	Response	By ment	
Reasons Given For Not Adding Programs	Less Than	5,000 To	10,000 To 15,000	Over	Total
Technical education is a function delegated to other institutions in the state	59	23	7	10	99
Technical education is inconsistent with institutional purposes	32	11	4	7	54
Inadequate facilities available	9	5	2	1	17
Insufficient funds available	8	2	2	1	13
Insufficient student interest in such programs	6	2			8
Insufficient demand for graduates of such programs	7	1			8
Faculty opposition to such programs	2	3	2		7
New programs will lead to the baccalaureate degree	2				2
Programs of less-than-baccalaureate level should not be on the same campus with those of baccalaureate level	1	1			2
More pressing needs are to be met		1			1
Total	126	49	17	19	211

Less-Than-Baccalaureate Level Curricula Currently Offered in Participating Institutions

Data regarding the variety and distribution of less-than-baccalaureate level technical education programs currently offered in participating institutions are presented in Table XII. As indicated, 150 different program titles appear in current offerings.



TABLE XII

TECHNICAL PROGRAMS OF LESS-THAN-BACCALAUREATE LEVEL PRESENTLY OFFERED IN PARTICIPATING INSTITUTIONS

			Pro	gran	Program Duration	洁	Years	rs				Insti	Institutional	Enrollment	ent
Took and Dagger	# #	ď	2-1/2	0	1-1/2	1-1/3	<u> </u>	2/3	Less Than 1/2	Unspeci- fied	rotal No. of Programs	Than 5,000	10,000	To To 15,000	Over 15,000
reclinicat riograms		H							-11						
Accounting				7							7	#	က	1	
Aeronautical				8	•						7	-		- 1	
Acricultural Rusiness				#							‡	- 1		-	8
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Allied Health				ო							ඟ	~	•	ᅻ,	
Animal Science				က					,		(7)	•	8	-	
Appliance Repair						-					-1	-	•		
Applied Plant Science				ન							-1		-		
Arboriculture and Park											(•	
Management				-							 1 •			4	,
Architectural				-							- 4 (•		4
Architectural Drafting				8							8		~ ~		
Art				-							-1 •	•	-		
Auto-Body						-	-				0 1	7			
Auto Mechanics				#			-				ഗ (ഗ	•		•
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TABLE XII (continued)

TECHNICAL PROGRAMS OF LESS-THAN-BACCALAUREATE LEVEL PRESENTLY OFFERED IN PARTICIPATING INSTITUTIONS

		Program	m Duration	ion in	Years	rs				Insti	Institutional	Enrollment	ent
							Less	•	Total	Less	5,000	10,000	
Technical Programs	3+ -4 3 2-1/	/2 2	1-1/2	1-1/3	٦	2/3	Than 1/2	Unspeci- fied	No. of Programs	rnan 5,000	10,000	15,000	15,000
					•				·				,
Business Office		- 1 (-1				۷ ,		-	•	4
Business Management		7					•		7 -	•	- i	4	
Cake Decorating		,					- ,		٠,	- 1 -			
Carpentry		-							٦ ;	-		•	·
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Chemical Engineering	-								-1	•	- - (•	,
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Civil Engineering					-				ज (•	-1		
Clerical		8							0 0	7	•		•
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Cytology		ส ೧							4 0		-		1 ~
Dairy Science		4 (4				•			. ~	2	1 <i>a</i> †	-	ì
Dental Assistant	•) #			#				- αο	1	ഹ	-	8
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Design		8							8	8			
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Drafting and Design		ო (•					o	? (c	•
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TABLE XII (continued)

TECHNICAL PROGRAMS OF LESS-THAN-BACCALAUREATE LEVEL PRESENTLY OFFERED IN PARTICIPATING INSTITUTIONS

			Progr	am Dur	Program Duration	in Years	ears			·	Institutional		Enrollment	
Technical Programs	3+	2-1	/2 2	1-1	/2 1-1	3	1 2/3	Less Than 1/2=	Unspeci- fied	lotal No. of Programs	Less Than 5,000	10,000 To	10,000 To 15,000	Over 15,000
7				-						-				-
Engineering (unspecified)			23	+						23	13	LC?	#	→
	.)							2 -) r=1	•	1
Farm Equipment Sales and														
Service				7						7				7
Farm Macuinery			7							7	ત	-		
Farm Mechanics			7							-				-т
Farm Operators			7							~	-			
Fire Protection			7							-1	-			
Floriculture			7							-			-1	
Food Service			3							ۍ			7	ო
Food Service Management			7							2		7		
Forestry			က							ო		7		7
Fruit and Vegetable Crops			7							7			-	
Furniture Finishing and														
Upholstery	-				~		7			ო	က			
			#							#				
Heating, Air Conditioning														
and Refrigeration			~							· 7			-	
Highway and Civil			7							7		-		
Home Economics (unspecified)			7							7		7		
Homemaking			7					7		7		7	-	
Horticulture			~							7	-			
Hotel and Food Service			7							7				7
Illustration			-							7				-
			က							ო	-	-		~
Industrial Design Drafting			-							7			-	
•			7							8		8		
Instrumentation			7							1			-	
Key Punch								–		~	-			
			7		•					8	~	-		
Laboratory Animal Management			-							ન				1
														9

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TABLE XII (continued)

TECHNICAL PROGRAMS OF LESS-THAN-BACCALAUREATE LEVEL PRESENTLY OFFERED IN PARTICIPATING INSTITUTIONS

		Prog	Program	Duration	in	Years	8				Institu		Enrollment	nt
								ress	•	Total	Less	2,000	10,000	,
Technical Programs	3+	2-1/2	2	1-1/2	1-1/3	7	2/3	Than 1/2	Unspeci- fied	No. of Programs	Than 5,000	To 10,000	To 15,000	0 ver 15,000
										6			~	
Landscape			7										•	
Landscape and Nursery										•				•
Management			-							 1	(-1
Laundry and Dry Cleaning			~		-					8	8	,	•	•
			တ			-				10	8	ဖ	-1	(
Linotype								8		8				~
Lumber and Building														
Materials - business										•			•	
Management			-							-1		•	-	
Machine Drafting			-							~	1	-1		
Machine Tool			8							8	~			,
Manufacturing			–							- 1		,		H
Marketing			-							- 1		-		1
Mechanical	8		თ							7	‡	က	~	8
Mechanical Engineering	ત									н		-		
	‡		8			-				7		-	~	
Mental Health			-							н				~
Merchandising			8							7		8		
Metallurgical			8							8	•	-1		-1
Metals			ო							ო (m (
Mineral						-				1 •	-			•
Mortuary Science	ત									⊣ ′				<i>•</i>
Nurse Anesthesiology				-					ı	-1 ;	ı			
Nursing	8		20			ဖ			H	5 8	_	=	m	∞
Office Administration			-							~	~		•	
Office Occupations			~							- 1 •		•	-	
Ornamental Horticulture	•		-			•				н с		- 1		c
Orthoptic	⊣		-			4				7 F	-			•
Petroleum Detector Distailantion			10							1 0	ı			8
retroieum Distribution Pharmacy	,		1 m²							· A		ત		

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TABLE XII (continued)

TECHNICAL PROGRAMS OF LESS-THAN-BACCALAUREATE LEVEL PRESENTLY OFFERED IN PARTICIPATING INSTITUTIONS

			Pr	ogra	Program Duration	ion in	Years	ırs				Institutional	_ [Enrollment	1.0
	÷								Less	[inspecie	Total	Less	5,000 To	10,000 TO	. 4010
Technical Programs	7	က	2-1/2	2	1-1/2	1-1/3	1	2/3	1/2	fied	O.U	5,000	10,000	15,000	15,000
Photographic				-							-		1		
Physical Therapy)			٦				1)		_
				-							· ન		-		ı
Plumbing				8							8	8	l		
Police Science				~							٦			-	
Power Mechanics				-							н			-	
Printing	-			9							7	ო	က	Н	
Public Administration							-				-		-		
Public Health									7		-		-		
Public School Nurse		-									7	-			
Quality Control									-		7	-			
Radiation				-							7	-			
Radiological				-	-						8				8
Recreation Supervision				-							7		7		ł
Refrigeration and Air															
Conditioning				#							‡	8	7		
Restaurant and Hotel															
Management				-							~			7	
Retailing				ო							ო		7	-	т
Science				-							-		-		
Sci	7			30		-	9				38	œ	20	ß	S
Shoe, Boot and Saddle															
Repair				~							7	-			
Soil					-						~1				m
Soil, Water and															l
Conservation					-						7		-		
Stenographic		-		က			7				ഹ	7			
Surveying		-		-							C1		-1		7
Technical (unspecified)				21								77			
Technology (unspecified) Teletypesetter				œ					-		∞ -	7			H
									•		•	•			

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TABLE XII (continued)

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TECHNICAL PROGRAMS OF LESS-THAN-BACCALAUREATE LEVEL PRESENTLY OFFERED IN PARTICIPATING INSTITUTIONS

			Pro	gra	Program Duration in Years	on in	Year	S		•		Institu	Institutional Enrollment	nrollmen	t.
Technical Programs	**************************************	က	2-1/2	7	1-1/2	1-1/3	1	2/3	Less Than 1/2	Unspeci- fied	Total No. of Programs	Less Than 5,000	5,000 To 10,000	10,000 to 15,000	0ver 15,000
Tool Turf Management Turf and Grass Management				211			1				1 2 2		7	2	ч
Watchmaker and Micro- Instrumentation Welding				442								- п			
Wood, Paper and Pulp Wood Utilization X-Ray				чч							711	8		-	#
Specific Area Not Given	7	8		73			ហ	٠			18	e 3	17	ம	16
Total	9	36	-	505	9	7	45	1	11	1	619	254	198	99	101

APPENDIX A



EASTERN KENTUCKY UNIVERSITY

RICHMOND, KENTUCKY 40475

OFFICE OF THE PRESIDENT

February 1, 1967

Eastern Kentucky University is cooperating with the Association of State Colleges and Universities and the National Association of State Universities and Land Grant Colleges in a research project designed to ascertain the current status of less than baccalaureate level technical education programs in institutions of higher education. From this study we hope to identify both the extent of <u>current</u> involvement in such programs and <u>projected</u> involvement by 1970.

One purpose of this study is to give adequate recognition nationally to the role that state and land grant colleges and universities now play in meeting educational needs at the associate degree or less than baccalaureate degree levels. This information might also be useful in the preparation of testimony by the two associations before appropriate congressional committees and in dealing with federal agencies.

For the purpose of this study, technical education programs are defined as those occupational curricula that combine general education with technical information and practical skill development experiences necessary for individuals who wish to enter into and subsequently succeed in occupations that require an understanding of the laws of science and technology and their application in our society. I would emphasize, however, that we are concerned with all associate degree and less than baccalaureate level programs.

I wish to solicit your cooperation in this endeavor and request that you complete the enclosed information forms. The forms have been constructed to facilitate speed in completion and thereby minimize the imposition being made upon your busy schedule. In addition, I will appreciate any additional comments you wish to record on the back of the information forms, and any supplementary materials which you may wish to forward to me. You have my assurance that all information contributed will be treated in a manner that will not identify institutions or individuals, and you will be provided with a summary of the results of the study.

Won't you please respond to the items included in the forms, place in the stamped envelope provided for your use, and drop in the <u>outgoing</u> mail today?

Please accept my thanks, in advance, for your cooperation.

Robert R. Martin



APPENDIX B

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INFORMATION FORM FOR TECHNICAL EDUCATION PROGRAMS OF LESS THAN BACCALAUREATE LEVEL OFFERED ON THE MAIN CAMPUS

Dire	ections: Please respond be speed in completion, plea	elow to items 1, 2, 3 ase feel free to expan	, and others ap	plicable as indicate	ed. Although the forr ssary.	m is designed to	o facilitate ease
•	What is the current total				•		
	Are baccalaureate level t				☐ YES ☐ NO		
	Are technical programs					TYES INO)
If yo	ou checked YES in 3 above ou checked NO in 3 above,	e, please complete onl	aly applicable it	ems 4 through 7 and	d respondent item 11	below.	
* *	* * * * * * * *	* * * * * * *	* * * * *	* * * * * *	k * * * * * *	* * * *	* * * * *
4.	In the table below, please electronics, data process						
	Program Duration	Total Number Of Di Programs Of This D		upational Areas Rep Programs Of This D			udent Enrollment f This Duration
	More than 3, less than 4 years						_
	3 years						
	2 years						
	l year						
	6 months						
	Less than 6 months				·		<u> </u>
	Others: (please specify)	<u> </u>	_				
5.	Do you plan to expand exi		technical prog	rams of less than b	 accalaureate level at	your institution	— n by 1970?
6.	If you PLAN to expand te area(s), of what program					y 1970, in whic	:h occupational
•	Anticipated Occupational	Areas	Anticipated	Program Durations	<u> </u>		Year Programs ided Or Expanded
							
			<u></u>				
7.	If you DO NOT PLAN to cate the reason(s) for thi	expand technical offer is decision.	rings or develo	p new programs of	less than baccalaure	ate level by 197	0, please indi-
	☐ Insufficient funds avai ☐ Inadequate facilities a ☐ Difficult to locate qual	available	☐ Insufficien	udent interest in pr nt demand for additi number of program			easons: (specify)
* *	* * * * * * * *	* * * * * * *	* * * * *	* * * * * *	* * * * * * *	* * * *	* * * * *
8.	Although technical programum by 1970?			, are not presently i	being offered at your	institution, do	you plan to <u>add</u>
9.	If you PLAN to add techn duration(s), and in which					al area(s), of w	hat program
	Planned Occupational Arc	eas Pla	anned Program	<u>Durations</u>	Anticipated Yea	ar Programs Ai	re To Be Added
10.	If you DO NOT PLAN to decision.	add technical program	ns of less than	baccalaureate level	l by 1970, please ind	icate the reason	n(s) for this
٨	☐ Technical education is institutions	is a function delegated		such pro Faculty of	pposition to such prop	grams	
	☐ Insufficient funds avai				asons: (please specif		
	☐ Inadequate facilities a☐ Insufficient student in		ams	8			
* ;	* * * * * * * *	* * * * * *	* * * * *	* * * * * *	* * * * * *	* * *	* * * * *
11.	Respondent:	Name		Title		Institution	
	St	treet Address		City	State	 -	Zip Code
ERI Afull text Provided	LC.	1000		•	•	,	-
The state of the s	ZA BY ERIC						4

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APPENDIX C

INFORMATION FORM FOR TECHNICAL EDUCATION PROGRAMS OF LESS THAN BACCALAUREATE LEVEL OFFERED OFF-CAMPUS IN EXTENSION CENTERS, COMMUNITY COLLEGES, ET CETERA

. What is the current total student ear-climent in your institution? YES NO . Are teachined level review in the programs of less than baccalaureate level currently being offered at your institution? YES NO . Are teachined programs of less than baccalaureate level currently being offered at your institution? YES NO . Are teachined programs of less than baccalaureate level by long offered at your institution? YES NO . Are teachined programs of less than baccalaureate level by long offered at your institution in the level.	nd spe	eed in completion, pleas	se feel free to expand	response cat	tegories where	ndicated. Although e necessary.	, the form i	s designed to facilitate ease
Are bencial programs of less than baccalizates level technical programs oblige offered at your institution? YES NO you checked YES in 3 above, please complete only applicable items of through 7 and respondent item 11 below, you checked NO in 3 above, please complete only applicable items of through 7 and respondent item 11 below, you checked NO in 3 above, please complete only applicable items of through 7 and respondent item 11 below, you checked NO in 3 above, please complete only applicable items of the responding them 11 below. 1. In the table below, please provide information regarding approximate total student enrollment and occupational areas (e.g., mare lectronics, data processing, it.e.), represented in programs of differing length currently offered at your institution. Program Duration Total Number Of Different Occupational Areas Represented in Programs Of This Duration Program Of This Duration Program Of This Duration Program Of This Duration Nore than 3, less than 4 years 1 year 6 months Chers: (please specify) 5. Do you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 1970; and in which year will these changes by implemented? Anticipated Occupational Areas Anticipated Program Duration Are To Be Added Or Expand Continued to the develop new programs of less than baccalaureate level by 1970, please indicate the reason(s) for this decision. Duratificient funds available Dufficient to locate qualifier funds available Dufficient to locate qualifier for given of the succession Dufficient to locate qualifier for given of the succession Dufficient to locate qualifier for given of the succession Dufficient demand for additional programs Other Reasons: (spec plants) Dufficient manuler of programs presently offered at your institution, do you plan to a such programs by 1970 UES UNO UNKNOWN Planned Occupational Areas Planned Program Durations Duratificient demand in this geographical area for graduate	. Wh	hat is the current total s	student enrollment in y	your institution	ion?	·		
Are technical programs of less than baccalaureate level any programs of less than decomplete only applicable items 8 through 7 and respondent item 11 below. Journ Checked YES in 3 above, please complete only applicable items 8 through 10 and respondent item 11 below. In the table below, please provide information regarding approximate total student excollment and occupational areas (e.g., mare aleateronics, data processing, etc.) represented in programs of differing length correctly offered at your institution. Program Durstion Program Durstion Program Less than 4 years 3 years 2 years 1 years 1 years 6 months Less than 6 months Chierse: (please specify) 5. Do you plan to aspend existing or develop new technical programs of less than baccalaureate level at your institution by 1970? IYES NO UNKNOWN IN Myou Flan to organd technical offering or develop new programs of less than baccalaureate level by 1970, in which occupations areas(), of what program duration(f), and in which year will these changes by implemented? Anticipated Occupational Areas Anticipated Program Durations Are To Be Added Or Expandicate facilities available Lack of student interest in present programs Other Reasons: (specificated mane) to 1970; in which occupations are help to 1970, and in which year do you anticipate these additions altered programs presently offered at your institution, do you plan to a such programs by 1970? YES NO UNKNOWN 8. Although technical programs of less than baccalaureate level by 1970, in which occupational areas(s), of what programs duration(s), and in which year do you anticipate these additions at your institution? Planned Cocupational Areas Planned Program Durations Anticipated Year Programs Are To Be Added Cr Expans Other Reasons: (specific the such programs of less than baccalaureate level by 1970, please indicate the reason(s) for this decision. Technical education is a function delegated to other state Insufficient demand in this geographical area for gradoates I	. Ar	re baccalaureate level te	echnical programs bei	ing offered at	t your instituti	on? YES NO)	
you checked XES in 3 above, please complete only applicable items of through 7 and respondent item il below. "You checked MO in 3 above, please complete only applicable items of through 10 and respondent item il below. "You checked MO in 3 above, please provide information regarding approximate total student enrollment and occupational areas (e. g., nurse electronics, data processing, etc.) represented in programs of differing length currently offered at your institution. Program Duration Programs Of This Duration Programs of This Duration In All Programs Of This Duration More than 3, less than 4 years 3 years 2 years 1 year 6 months Less than 6 months Chlors: (please specify) 5. Do you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 1970? Anticipated Occupational Areas Anticipated Program Duration Anticipated Cocupational Areas Anticipated Program Duration Daudificient funds availabile Datentic location programs of less than baccalaureate level by 1970, please indicate the reason(s) for this decision. Datentic locate qualified staff Datenticic in the makes of the programs of less than baccalaureate level by 1970, please indicate the reason(s) for this decision. Datentic locate qualified staff Datentic in the mumber of programs presently offered Datentic locate qualified staff Datentic intendented for additional programs Other Reasons: (apec and the programs by 1970 UES DNO DURNNOWN Datentic locate qualified staff Datentic intendented for additional programs Other Reasons: (apec and the programs by 1970 Datentic location Datentic locate qualified staff Datentic intendented for additional programs Other Reasons: (apec and the programs by 1970 UES DNO DURNNOWN Duration Durations Du	. Ar	re technical programs of	of <u>less</u> than baccalaure	eate level cur	rrently being o	offered at your instit	itution? 🔲	yes no
. In the table below, please provide information regarding approximate total student enrollment and occupational areas (s.g., nate electronics, data processing, etc.) represented in programs of differing length currently offered at your institution. Total Number of Different Program Duration Program Duration Program Of This Duration Programs Of This Duration More than 3, less than 4 years 2 years 2 years 1 year 6 months Cthers: (please specify) 5. De you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 19707 If you DLAN to expand technical offering or develop new programs of less than baccalaureate level by 1970, in which occupations area(s), of what program duration(s), and in which year will these changes by implemented? Anticipated Occupational Areas Anticipated Program Durations Anticipated Program Durations Insufficient funds available		shorted WEG in 2 shows	nlesse complete only	v applicable i	items 4 through	gh 7 and respondent	item 11 bel	elow.
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electronics, data processing, etc.) represented in programs of different programs of different programs of the	Tn	All Ashle below planes	nworide information t	recarding ap	nroximate tot	al student enrollmer	nt and occu	pational areas (e.g., nursi
Total Number Of Different Programs Of This Duration More than 3, less than 4 years 3 years 2 years 1 year 6 months Chers: (please specify) 5. Do you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 1970? TYPES NO DURKNOWN 6 If you DO NOT PLAN to expand technical offerings or develop new programs of less than baccalaureate level by 1970, in which occupational areas Anticipated Occupational Areas Anticipated Program Durations Anticipated Occupational Areas Anticipated Program Durations If you DO NOT PLAN to expand technical offerings or develop new programs of less than baccalaureate level by 1970, please indicate the reason(s) for this decision. Insufficient duma available Lack of student interest in present programs Difficult to locate qualified staff Sufficient demand for additional programs Although technical programs of less than baccalaureate level by 1970, please indicates the locate qualified staff Although technical programs of less than baccalaureate level by 1970, in which occupational area(s), of what programs of less than baccalaureate level by 1970, please indicates the reason(s) for this decision. Although technical programs of less than baccalaureate level by 1970, in which occupational area(s), of what programs of less than baccalaureate level by 1970, in which occupational area(s), of what programs of less than baccalaureate level by 1970, in which occupational area(s), of what program of less than baccalaureate level by 1970, in which occupational area(s), of what programs of less than baccalaureate level by 1970, in which occupational area(s), of what programs of less than baccalaureate level by 1970, in which occupational area(s), of what programs of less than baccalaureate level by 1970, in which occupational area(s), of what programs of less than baccalaureate level by 1970, please indicate the reason(s) for this decision. Please of the program of less than baccalaureate level by	l ele	the table below, Francess	sing, etc.) represented	d in program	s of differing	length currently off	iered at you	ur institution.
3 years 2 years 1 year 6 months Less than 6 months Cothers: (please specify) 5. Do you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 1970? YES			Total Number Of Dif	ifferent Occ	cupational Are	eas Represented In	Approxim	nate Total Student Enrollme
2 years 1 year 6 months Less than 6 months Chers: (please specify) 5. Do you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 1970? YES		•						
See than 6 months Cheers: (please specify)	3 ;	years						-
See than 6 months Cheers: (please specify)								
6 months Less than 6 months Others: (please specify) 5. Do you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 1970?								
Chers: (please specify)		•						
Others: (please specify) 5. Do you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 1970? YFES NO UNKNOWN No If you PLAN to expand technical offering or develop new programs of less than baccalaureate level by 1970, in which occupations area(s), of what program duration(s), and in which year will these changes by implemented? Anticipated Occupational Areas				<i>.</i> 				
5. Do you plan to expand existing or develop new technical programs of less than baccalaureate level at your institution by 1970? Matter Matte				•				
Marco Marc	-							
Mare								
Anticipated Cocupational Areas Anticipated Program Durations Anticipated Cocupational Areas Anticipated Program Durations Anticipated Program Durations Are To Be Added Or Expansion Insufficient funds available		☐YES ☐NO ☐UNK	NOWN					
Anticipated Occupational Areas Anticipated Program Durations Are To Be Added Or Expan	6. If aı	you PLAN to expand terrea(s), of what program	chnical offering or devaluation(s), and in w	velop new provinch year wi	ograms of les ll these chang	s than baccalaureat es by implemented	e level by ! ?	
Insufficient funds available	<u>A</u> :	inticipated Occupational	Areas	Anticipated	d Program Du	rations	<u> </u>	Anticipated Year Program Are To Be Added Or Expand
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Insufficient funds available	_							
Insufficient funds available	- -	TO TOO THE ANY to		· · · · · · · · · · · ·	*		12	- 11 by 1970, please indi
Insufficient funds available Lack of student interest in present programs Other Reasons: (specific Inadequate facilities available Insufficient demand for additional programs Other Reasons: (specific Insufficient funds available Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds available Insufficient funds available Insufficient student interest in such programs Other Reasons: (specific Insufficient funds a				ings or devel	ob new brokr	1M8 OI 1655 than 56.	CCaldurease	; level by 1710, process
Insufficient funds available Insufficient demand for additional programs Insufficient funds available Insufficient number of programs presently offered Insufficient funds available Insufficient demand for additional programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available Insufficient student interest in such programs Insufficient funds available In				□ Lack of	student intere	et in present progr	ams	Other Reasons: (speci
Difficult to locate qualified staff				☐ Insufficie	ent demand for	or additional program	ms	-
such programs by 1970?				☐ Sufficien	t number of p	rograms presently	offered	
such programs by 1970?	*	* * * * * *	* * * * * * *	* * * *	* * * *	* * * * * *	* * * *	* * * * * * * * * * * * * * * * * * * *
9. If you PLAN to add technical offerings of less than baccalaureate level by 1970, in which occupational area(s), of what program duration(s), and in which year do you anticipate these additions at your institution? Planned Occupational Areas Planned Program Durations Anticipated Year Programs Are To Be Add electron and technical programs of less than baccalaureate level by 1970, please indicate the reason(s) for this decision. Technical education is inconsistent with institutional purposes institutions Technical education is a function delegated to other state institutions Insufficient funds available Inadequate facilities available Insufficient student interest in such programs ** ** ** ** ** ** ** ** ** ** ** ** **	81	such programs by 1970?	YES NO U	UNKNOWN				
10. If you DO NOT PLAN to add technical programs of less than baccalaureate level by 1970, please indicate the reason(s) for this decision. Technical education is inconsistent with institutional purposes Insufficient demand in this geographical area for graduated such programs Faculty opposition to such programs Other Reasons: (please specify) Other Reasons: (please specify)	9. If	you PLAN to add techn uration(s), and in which	ical offerings of less a year do you anticipal	than baccalar te these addir	ureate level b tions at your i	institution?		
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